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IN THE CLAIMS:

Amended claims follow:

1. (Currently Amended) A method for preventing needless rescanning of objects comprising:
  - verifying an integrity of a file system by scanning the file system resulting in at least one known scanned region;
  - creating a database of the known scanned regions of the verified file system; and
  - validating an integrity of an object in the file system against the database of known scanned regions;
  - wherein the verifying comprises:
    - receiving a file system event from a real-time monitoring system, the file system event indicating that an object in the file system has been accessed; and
    - flagging the database of known scanned regions to indicate which of the known scanned regions was occupied by the accessed object;
  - wherein the validating utilizes the flagging;
  - wherein the database of known scanned regions comprises a copy of a partition table data structure indicating an identity and a location of a known scanned region occupied by the object;
  - wherein the partition table data structure includes an inode that contains information about the object other than name, and a directory block that contains the object name and a number of the inode of the object;

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wherein flagging comprises indicating which of the inodes and directory blocks were occupied by the accessed object.

2. (Original) The method of claim 1, wherein verifying the integrity of the file system comprises scanning the objects in the file system for a presence of viruses.

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Currently Amended) The method of claim [6]1, wherein the partition table data structure includes a super block that contains information about the file system as a whole, and a data block that contains a location in the file system where the object is stored.

8. (Original) The method of claim 7, wherein validating the integrity of an object comprises determining that the object does not occupy a flagged known scanned region.

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9. (Cancelled)

10. (Currently Amended) The method of claim [9]1, wherein validating the integrity of an object comprises determining that the object does not occupy a flagged inode and directory block.

11. (Original) The method of claim 1 further comprising:

rescanning the object when the integrity of the object has not been validated; and

bypassing rescanning the object when the integrity of the object has been validated.

12. (Currently Amended) The method of claim 1, wherein the real-time monitoring system is a virtual device driver (VxD) program.

13. (Previously Presented) The method of claim 1, wherein the real-time monitoring system is a UNIX daemon.

14. (Previously Presented) The method of claim 1, wherein the real-time monitoring system is a network loadable module.

15. (Currently Amended) An apparatus comprising:

a machine-accessible medium having stored thereon executable

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instructions to cause a computer to perform:

verifying an integrity of a file system by scanning the file system resulting in at least one known scanned region;

creating a database of known scanned regions of the verified file system;

and

validating the integrity of an object in the file system against the database of known scanned regions;

wherein the verifying comprises:

receiving a file system event from a real-time monitoring system, the file system event indicating that an object in the file system has been accessed; and

flagging the database of known scanned regions to indicate which of the known scanned regions was occupied by the accessed object;

wherein the validating utilizes the flagging;

wherein the database of known scanned regions comprises a copy of a partition table data structure indicating an identity and a location of the known scanned region occupied by the object;

wherein the partition table data structure includes at least one of an inode that contains information about the object other than name, and a directory block that contains the object name and a number of the inode of the object;

wherein flagging comprises indicating which of the inodes or directory blocks were occupied by the accessed object.

16. (Original) The apparatus of claim 15, wherein verifying the integrity of the

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file system comprises scanning every object in the file system for the presence of viruses.

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Currently Amended) The apparatus of claim 1[9]5, wherein the partition table data structure includes a super block that contains information about the file system as a whole, and a data block that contains a location in the file system where the object is stored.

22. (Original) The apparatus of claim 15, wherein validating the integrity of an object comprises determining that the object does not occupy a flagged region.

23. (Cancelled)

24. (Currently Amended) The apparatus of claim [20]15, wherein the instructions for validating the integrity of an object comprises determining that the object does

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not occupy a flagged inode and directory block.

25. (Original) The apparatus of claim 15 further comprising instructions to cause a computer to perform:

rescanning the object when the integrity of the object has not been validated; and

bypassing rescanning the object when the integrity of the object has been validated.

26. (Currently Amended) The apparatus of claim 15, wherein the real-time monitoring system is a virtual device driver (VxD) program.

27. (Previously Presented) The apparatus of claim 15, wherein the real-time monitoring system is a UNIX daemon.

28. (Previously Presented) The apparatus of claim 15, wherein the real-time monitoring system is a network loadable module.

29. (Currently Amended) An integrity validator comprising:

a verifier to verify the integrity of a file system by scanning the file system resulting in at least one known scanned region;

a database of the known scanned regions of the verified file system; and

a validator to validate the integrity of an object in the file system against

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the database of known scanned regions;

wherein the verifying comprises:

receiving a file system event from a real-time monitoring system, the file system event indicating that an object in the file system has been accessed; and

flagging the database of known scanned regions to indicate which of the known scanned regions was occupied by the accessed object;

wherein the validating utilizes the flagging;

wherein the database of known scanned regions comprises a copy of a partition table data structure indicating an identity and a location of a known scanned region occupied by the object;

wherein the partition table data structure includes an inode that contains information about the object other than name, and a directory block that contains the object name and a number of the inode of the object;

wherein flagging comprises indicating which of the partition table data structures were occupied by the accessed object.

30. (Original) The device of claim 29, wherein the verifier verifies the integrity of the file system by scanning the objects in the file system for the presence of viruses.

31. (Cancelled)

32. (Cancelled)

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33. (Cancelled)

34. (Cancelled)

35. (Currently Amended) The device of claim [33]29, wherein the partition table data structure includes a super block that contains information about the file system as a whole, and a data block that contains a location in the file system where the object is stored.

36. (Original) The device of claim 29, wherein the validator validates the integrity of an object by determining that the object does not occupy a flagged known scanned region.

37. (Cancelled)

38. (Currently Amended) The device of claim [34]29, wherein the validator validates the integrity of an object by determining that the object does not occupy a flagged partition table data structure.

39. (Original) The device of claim 29, further comprising:

an AV scanner to rescan the object when the integrity of the object has not been validated, wherein rescanning is bypassed when the integrity of the object



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has been validated.

40. (Currently Amended) The device of claim 29, wherein the real-time monitoring system is a virtual device driver (VxD) program.

41. (Previously Presented) The device of claim 29, wherein the real-time monitoring system is a UNIX daemon.

42. (Previously Presented) The device of claim 29, wherein the real-time monitoring system is a network loadable module.

43. (Currently Amended) A computer system comprising:

a processor coupled to a system bus;

a memory coupled to the processor through the system bus;

a machine-accessible medium coupled to the processor through the system bus;

an integrity process executed from the machine-accessible medium by the processor, wherein the integrity process causes the processor to verify the integrity of a file system resulting in at least one known scanned region, to create a database of known scanned regions of the verified file system, and to validate the integrity of an object in the file system against the database of known scanned regions;

wherein the verifying comprises:

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receiving a file system event from a real-time monitoring system, the file system event indicating that an object in the file system has been accessed; and

flagging the database of known scanned regions to indicate which of the known scanned regions was occupied by the accessed object;

wherein the validating utilizes the flagging;

wherein the database of known scanned regions comprises a copy of a partition table data structure indicating an identity and a location of a known scanned region occupied by the object;

wherein the partition table data structure includes an inode that contains information about the object other than name, and a directory block that contains the object name and a number of the inode of the object;

wherein the system causes the processor to flag the database of known regions to indicate which of the inodes and directory blocks were occupied by the accessed object.

44. (Original) The computer system of claim 43, wherein the system causes the processor to verify the integrity of the file system by scanning the objects in the file system for the presence of viruses.

45. (Cancelled)

46. (Cancelled)

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47. (Cancelled)

48. (Cancelled)

49. (Currently Amended) The computer system of claim 4[7]3, wherein the partition table data structure includes a super block that contains information about the file system as a whole, and a data block that contains a location in the file system where the object is stored.

50. (Original) The computer system of claim 43, wherein the system causes the processor to validate the integrity of an object by determining that the object does not occupy a flagged known scanned region.

51. (Cancelled)

52. (Currently Amended) The computer system of claim 4[8]3, wherein the system causes the processor to validate the integrity of an object by determining that the object does not occupy a flagged inode and directory block.

53. (Original) The computer system of claim 43, wherein the system further causes the processor to:

rescan the object when the integrity of the object has not been validated;

and

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bypass the rescan of the object when the integrity of the object has been validated.

54. (Currently Amended) The computer system of claim 43, wherein the real-time monitoring system is a virtual device driver (VxD) program.

55. (Previously Presented) The computer system of claim 43, wherein the real-time monitoring system is a UNIX daemon.

56. (Previously Presented) The computer system of claim 43, wherein the real-time monitoring system is a network loadable module.